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Mortars (concrete) compn - contg. nitrites, phosphates, aldonates and org. amines as corrosion inhibitors for iron

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP50001120	A	19750108			197519	B
JP78036851	B	19781005			197844	

Priority Applications (No Type Date): 73JP-0049665 A 19730507

Abstract (Basic): JP 50001120 A

To prevent corrosions of Fe articles used in mortars and concretes, mixts. consisting of nitrites 50-90, inorg. phosphates 8-20, aldonic acid or its salts 1-15, and triethanolamine 1-15 parts were added to mortars or concretes. In an example portland cement 280, sand 1070, and sea sand (0.3 wt. % NaCl) 790 kg/m³ were mixed with NaNO₂ 8, Na hexametaphosphate 1, Na aldonate 0.5, and triethanolamine 0.5 wt. % (to the cement), kneaded at 0.65 W/C ratio, and poured into a frame (15 cm diam. and 30 cm height), in which a polished Fe rod (10 mm diam) was inserted and exposed in outdoor. The addn. of the corrosion inhibitors had no influence on compressive strengths of mortars or concretes.